AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A product for an electrochemical <u>fuel</u> cell including a bipolar plate including a sheet metal product having a conductive and corrosion-resistant protective coating including a metal oxide on at least one side, with the metal oxide having a treatment <u>which ensures conductivity</u> <u>that produces a crystal structure of the metal oxide coating which ensures conductivity</u>.

2. (cancelled)

- 3. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the treatment takes the forms of <u>includes</u> a galvanic coating consisting of one of the elements aluminum, chromium, silver, antimony or molybdenum applied directly below the metal oxide coating.
- 4. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the treatment is executed as a doping.
- 5. (currently amended) A product in accordance with claim [4] 1 wherein the protective coating consists of at least one layer.

- 6. (currently amended) A product <u>fuel cell</u> in accordance with claim 4 wherein the protective coating comprises an oxide of one of the following elements or alloys of these elements: tin, zinc, indium.
- 7. (currently amended) A product <u>fuel cell</u> in accordance with claim 4 wherein the protective coating comprises a first layer of a metal oxide, a second layer of a dopant which ensures conductivity, and a third layer of a metal oxide.
- 8. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the protective coating comprises an alternating layer sequence of metal oxide and dopants which ensure conductivity.
- 9. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the protective coating comprises at least two layers.
- 10. (currently amended) A product <u>fuel cell</u> in accordance with claim 4 wherein the doping which ensures the conductivity comprises at least one element of the group aluminum, chromium, silver, boron, fluorine, antimony, chlorine, bromine, phosphorus, molybdenum and/or carbon.
- 11. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the protective coating comprises a protective coating deposited in a vacuum chamber.

- 12. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the protective coating has a thickness in the range between 1 monolayer and 1 μ , preferably between approximately 1 nm and approximately 500 nm.
- 13. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the sheet metal comprises aluminum, chrome-plate aluminum, copper, stainless steel, chrome-plated stainless steel, titanium, titanium alloys and iron-containing compounds both with and without metallic coating, with the metallic coating including at least one of the elements tin, zinc, nickel, chromium or alloys of these materials.
- 14. (currently amended) A product <u>fuel cell</u> in accordance with claim 1 wherein the sheet metal product has a thickness in the range from about 0.001 mm to about 5 mm.
- 15. (new) A product for an electrochemical cell including a bipolar plate including a sheet metal product having a conductive and corrosion-resistant protective coating including a metal oxide on at least one side, with the metal oxide having a treatment which ensures conductivity,

wherein the treatment is executed as a doping; and

wherein the protective coating comprises a first layer of a metal oxide, a second layer of a dopant which ensures conductivity, and a third layer of a metal oxide.

16. (new) A product for an electrochemical cell including a bipolar plate including a sheet metal product having a conductive and corrosion-resistant protective coating including a metal oxide on at least one side, with the metal oxide having a treatment which ensures conductivity,

wherein the protective coating comprises an alternating layer sequence of metal oxide and dopants which ensure conductivity.